

### "LAB 11"

# TANZEELA ASGHAR 2021-BSE-032 "A"

**SUBMITTED TO: SIR SHAHZAD** 

<u>.....</u>

EXAMPLE 1
SERVER

#### **CLIENT**

#### **OUTPUT**

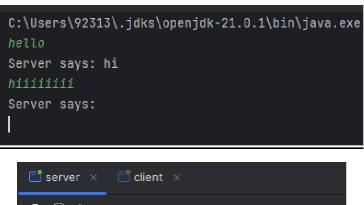


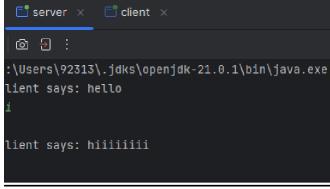
EXAMPLE 2
SERVER

#### **CLIENT**

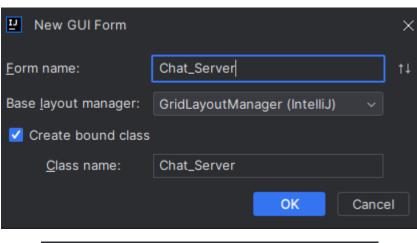
```
© client.java ×
                  © server.java
import java.net.*;
mport java.io.*;
class client{
public static void main(String args[])throws Exception{
        Socket s=new Socket( host: "localhost", port: 3333);
        DataInputStream din=new DataInputStream(s.getInputStream());
        DataOutputStream dout=new DataOutputStream(s.getOutputStream());
        BufferedReader br=new BufferedReader(new InputStreamReader(System.in));
       String str="",str2="";
       while(!str.equals("stop")){
            str=br.readLine();
           dout.writeUTF(str);
           dout.flush();
           str2=din.readUTF();
            System.out.println("Server says: "+str2);
       dout.close();
       s.close();
```

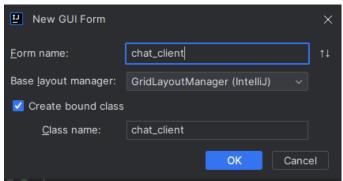
#### **OUTPUT**





## TASK: BUILD CHAT APPLICATION USING SOCKET,SWING





#### **CODE:**

#### **CLASS: CLIENT.JAVA**

```
server.java ×
                                 © client.java ×
                server.form
                                                 client.form
                  setSize( width: 400, height: 300);
                  setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
                  textFieldclient = new JTextField();
                  clientmsg_area = new JTextArea();
                  button1client = new JButton( text: "Send");
                  setLayout(new BorderLayout());
                  add(textFieldclient, BorderLayout.SOUTH);
                  add(new JScrollPane(clientmsg_area), BorderLayout.CENTER);
                  add(button1client, BorderLayout.EAST);
                  button1client.addActionListener(new ActionListener() {
                      public void actionPerformed(ActionEvent e) {
                          sendMessage();
                  initializeClient();
```

**CLASS: SERVER.JAVA** 

```
© server.java × □ server.form
                                 © client.java
                                                 ☐ client.form
          import javax.swing.*;
          import java.awt.*;
          import java.awt.event.ActionEvent;
          import java.awt.event.ActionListener;
          import java.net.ServerSocket;
          import java.net.Socket;
9 0 0
         public class server extends JFrame {
             private JTextArea msg_area;
             private JTextField textFieldserver;
              private JButton buttonserver;
             private ServerSocket serverSocket;
              private PrintWriter out;
              private BufferedReader in;
```

```
o server.java ×
                server.form
                                 © client.java
                                                 ☐ client.form
              public server() {
                  setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
                  msg_area = new JTextArea();
                  textFieldserver = new JTextField();
                  buttonserver = new JButton( text: "Send");
                  setLayout(new BorderLayout());
                  add(new JScrollPane(msg_area), BorderLayout.CENTER);
                  add(textFieldserver, BorderLayout.SOUTH);
                  add(buttonserver, BorderLayout.EAST);
                  buttonserver.addActionListener(new ActionListener() {
                      public void actionPerformed(ActionEvent e) {
                          sendMessage();
                  initializeServer();
```

```
server.form
                                  © client.java
                                                  ☐ client.form
© server.java ×
              private void sendMessage() {
                  String message = textFieldserver.getText();
                  if (!message.isEmpty()) {
                      msg_area.append("Server: " + message + "\n");
                      out.println("Server: " + message);
                      textFieldserver.setText("");
              private class ReceiveMessage implements Runnable {
                  @Override
71 (I)
                  public void run() {
                      try {
                          String receivedMessage;
                          while ((receivedMessage = in.readLine()) != null) {
                              msg_area.append(receivedMessage + "\n");
                      } catch (IOException e) {
                          e.printStackTrace();
```

#### **OUTPUT:**



